

US EPA ARCHIVE DOCUMENT

TUGBOAT OMAHA GROUNDING

LCDR LaDonn Allen
LT Rob McCaskey





M/V Omaha Grounding Incident Report

352 Tons 122.8 Feet

1100 Gallons of Lube and Oil

Maximum POTENTIAL Spill: 22,000 diesel fuel



30 May 2008



30 5:29AM



Left decending bank on MOR MM 11.2

30 9:01AM

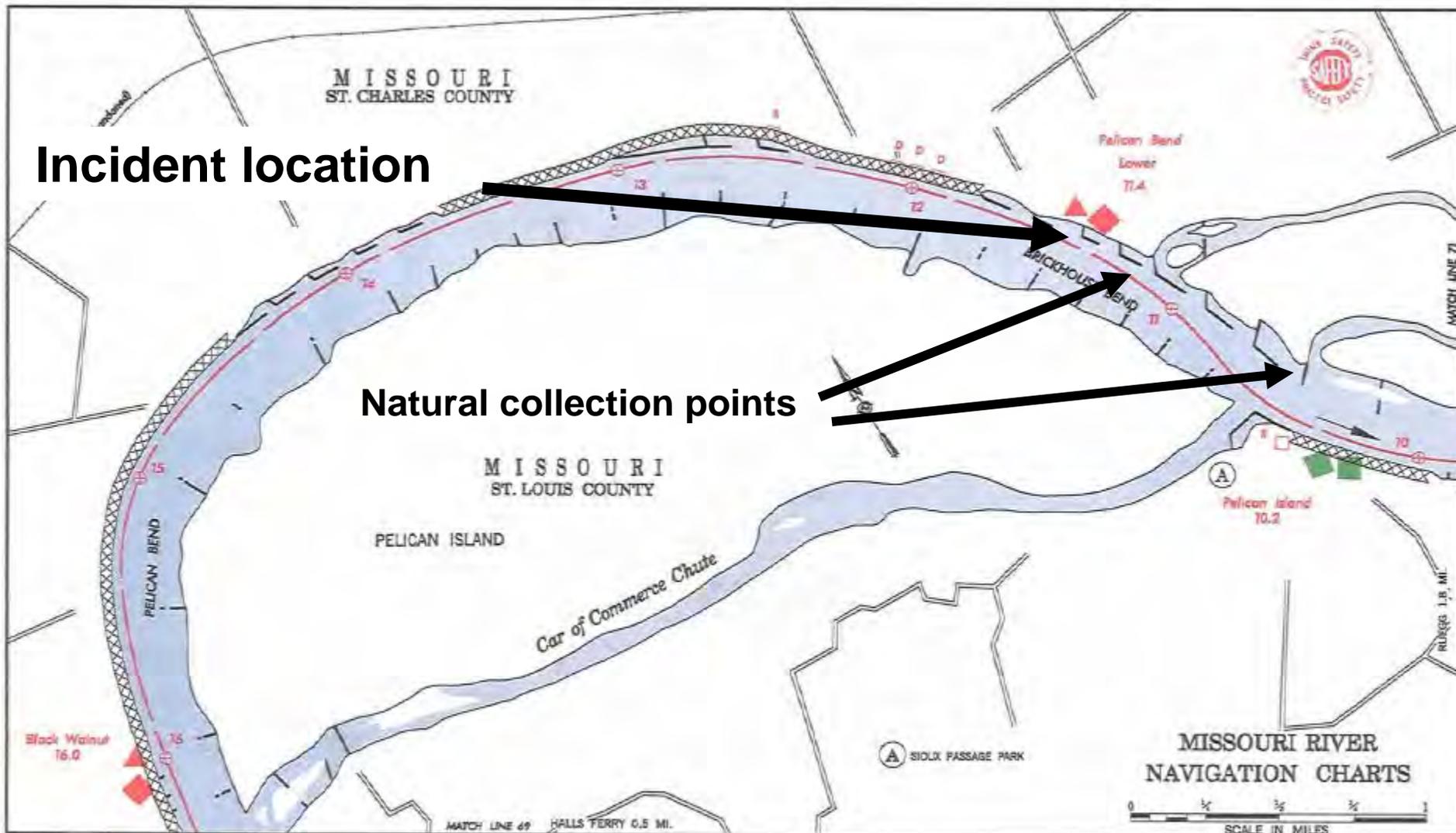
Product spilled: 4250

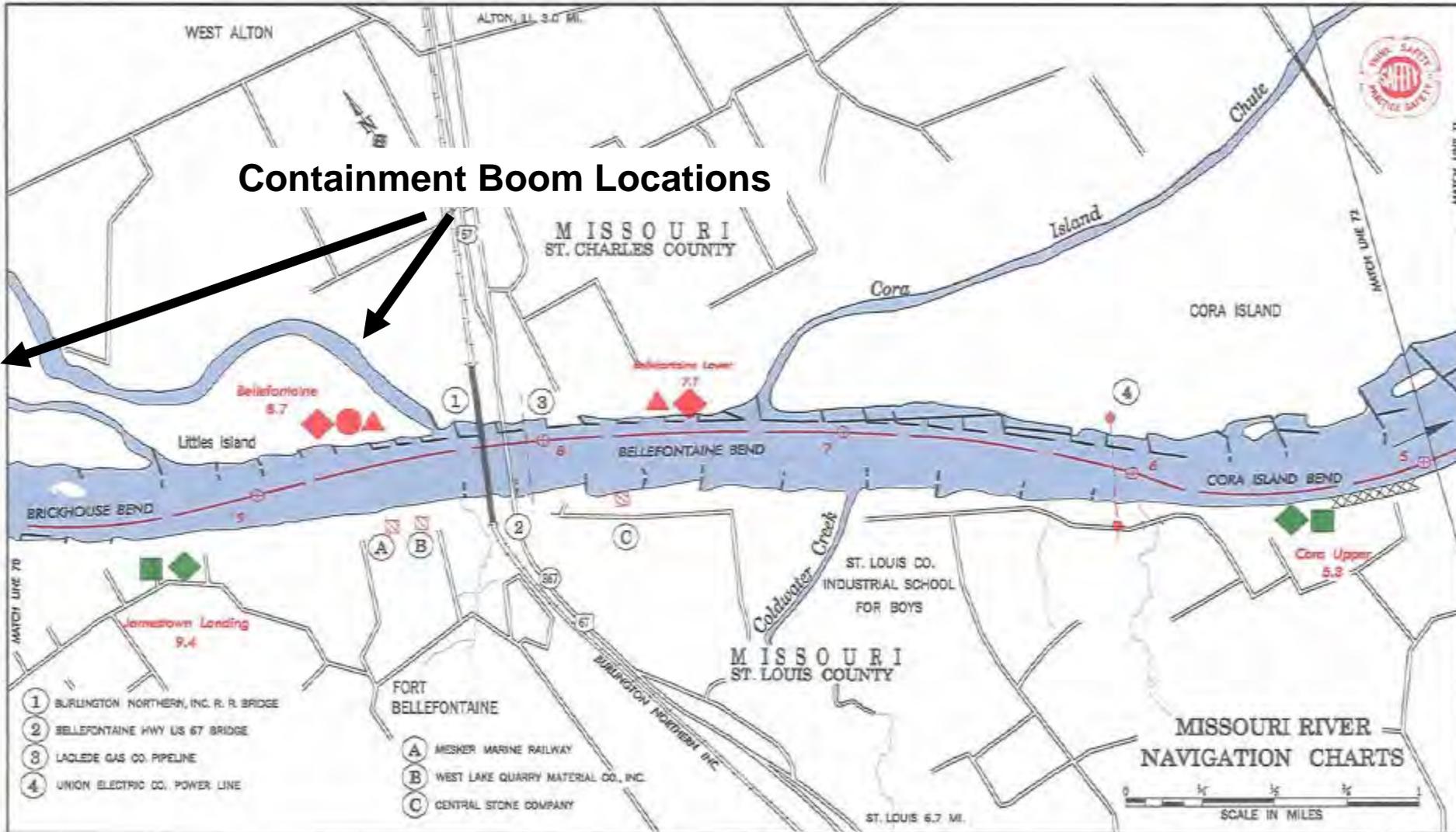


30 8:18AM

Incident location

Natural collection points





Containment Boom Locations



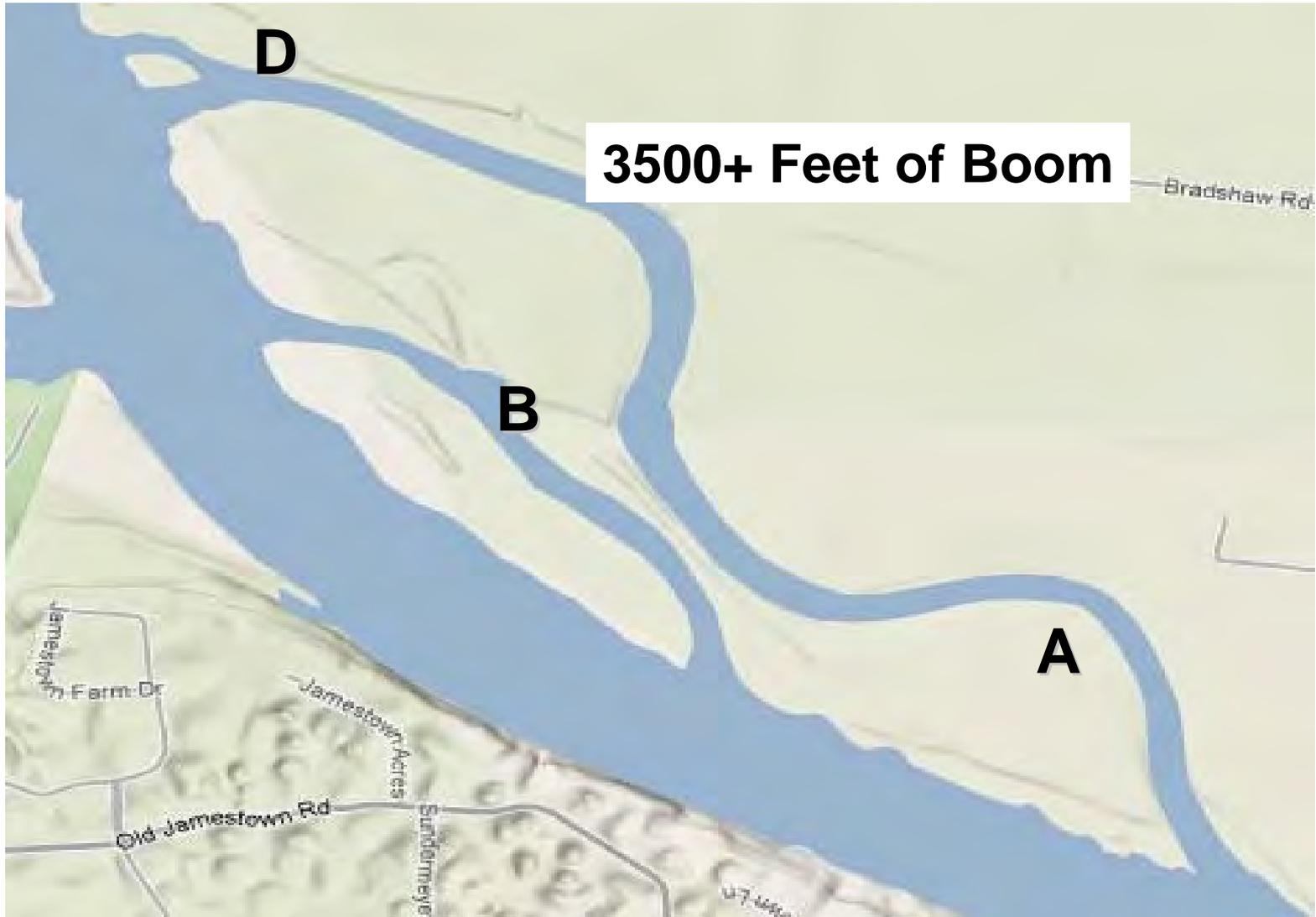
- ① BURLINGTON NORTHERN, INC. R. R. BRIDGE
- ② BELLEFONTAINE HWY US 67 BRIDGE
- ③ LAOLEDE GAS CO. PIPELINE
- ④ UNION ELECTRIC CO. POWER LINE

- A MESKER MARINE RAILWAY
- B WEST LAKE QUARRY MATERIAL CO., INC.
- C CENTRAL STONE COMPANY

MISSOURI RIVER
NAVIGATION CHARTS

0 1/4 1/2 3/4 1
SCALE IN MILES

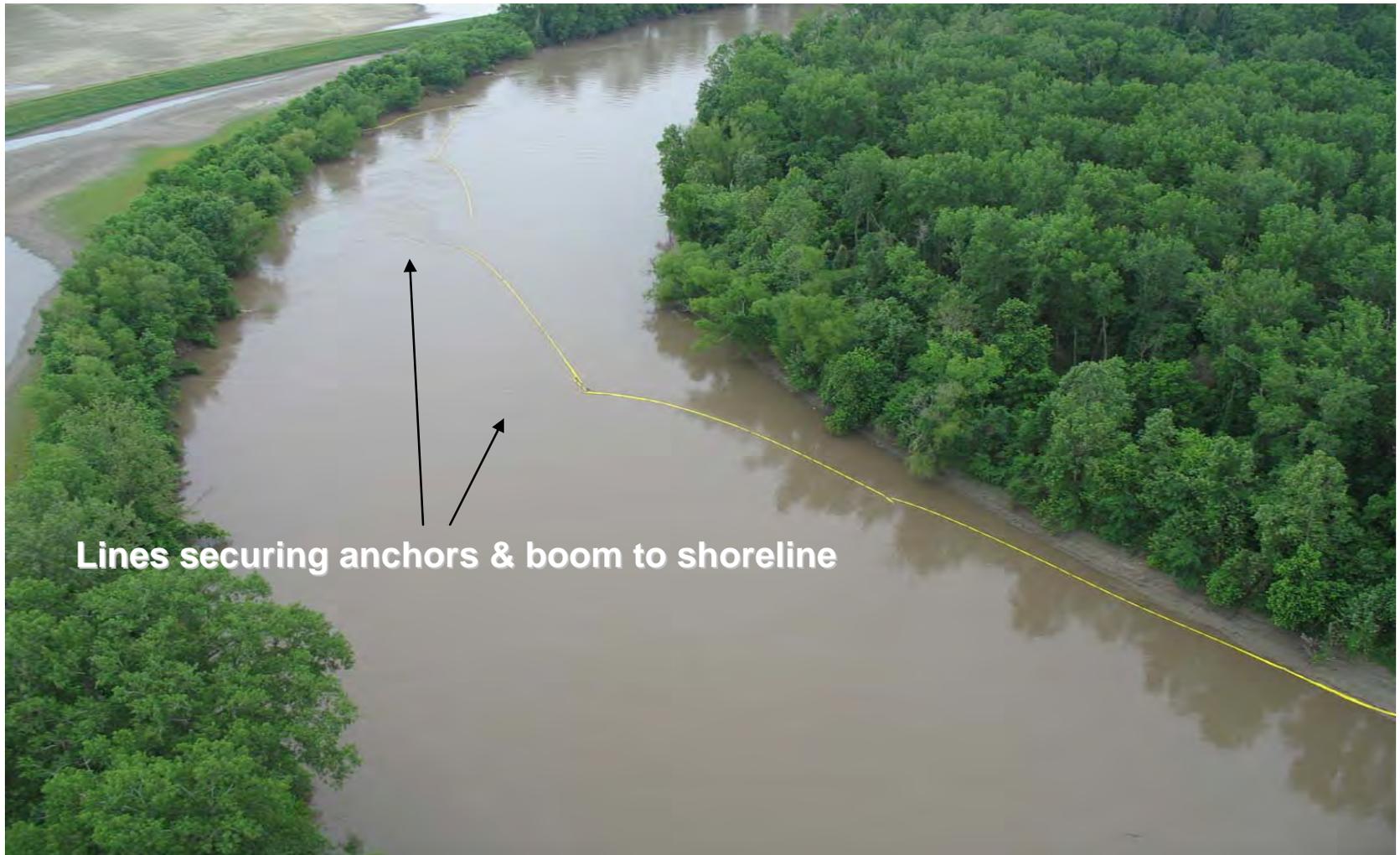
Boom Site Map



Booming Site "A"

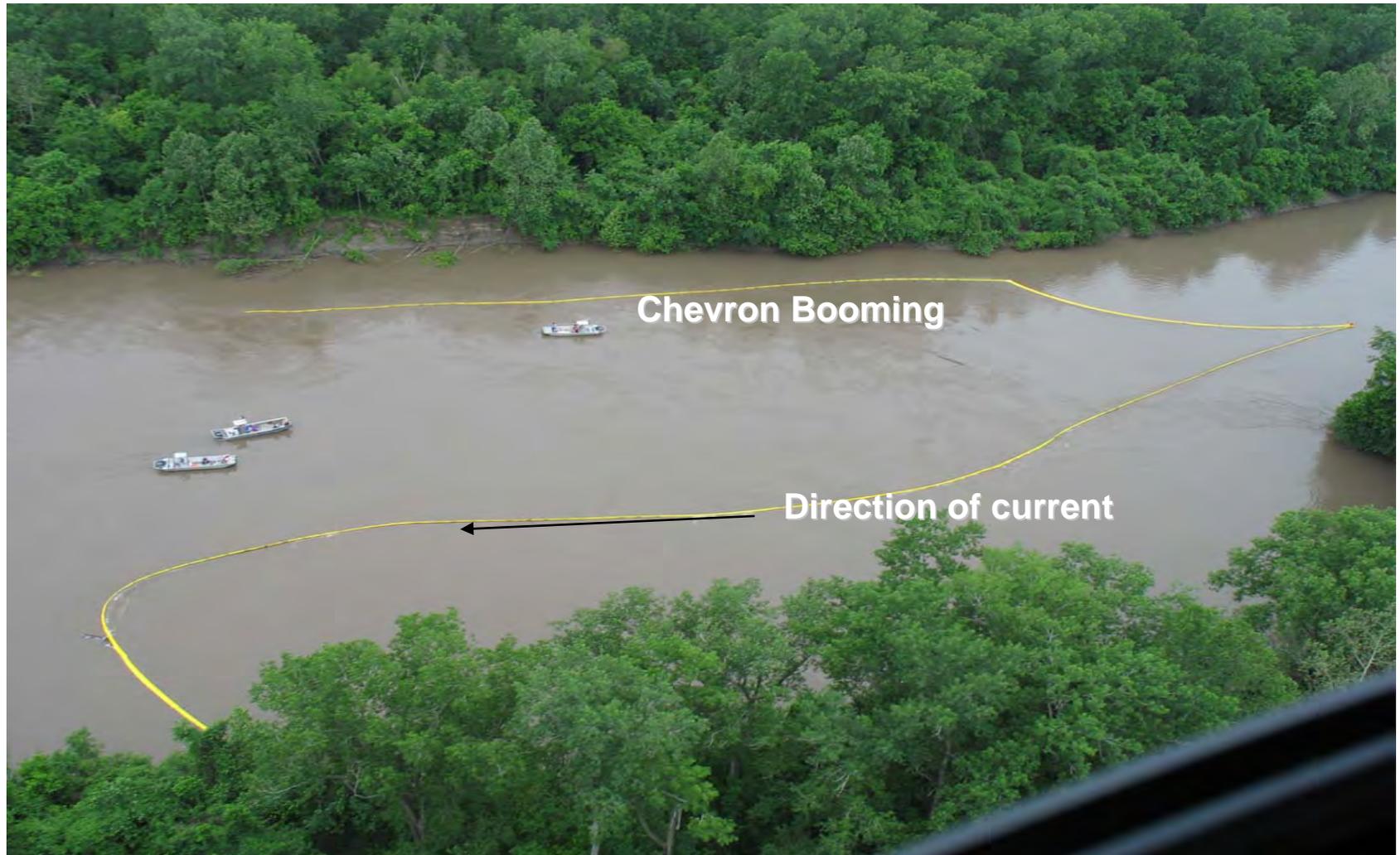


Booming Site "A"

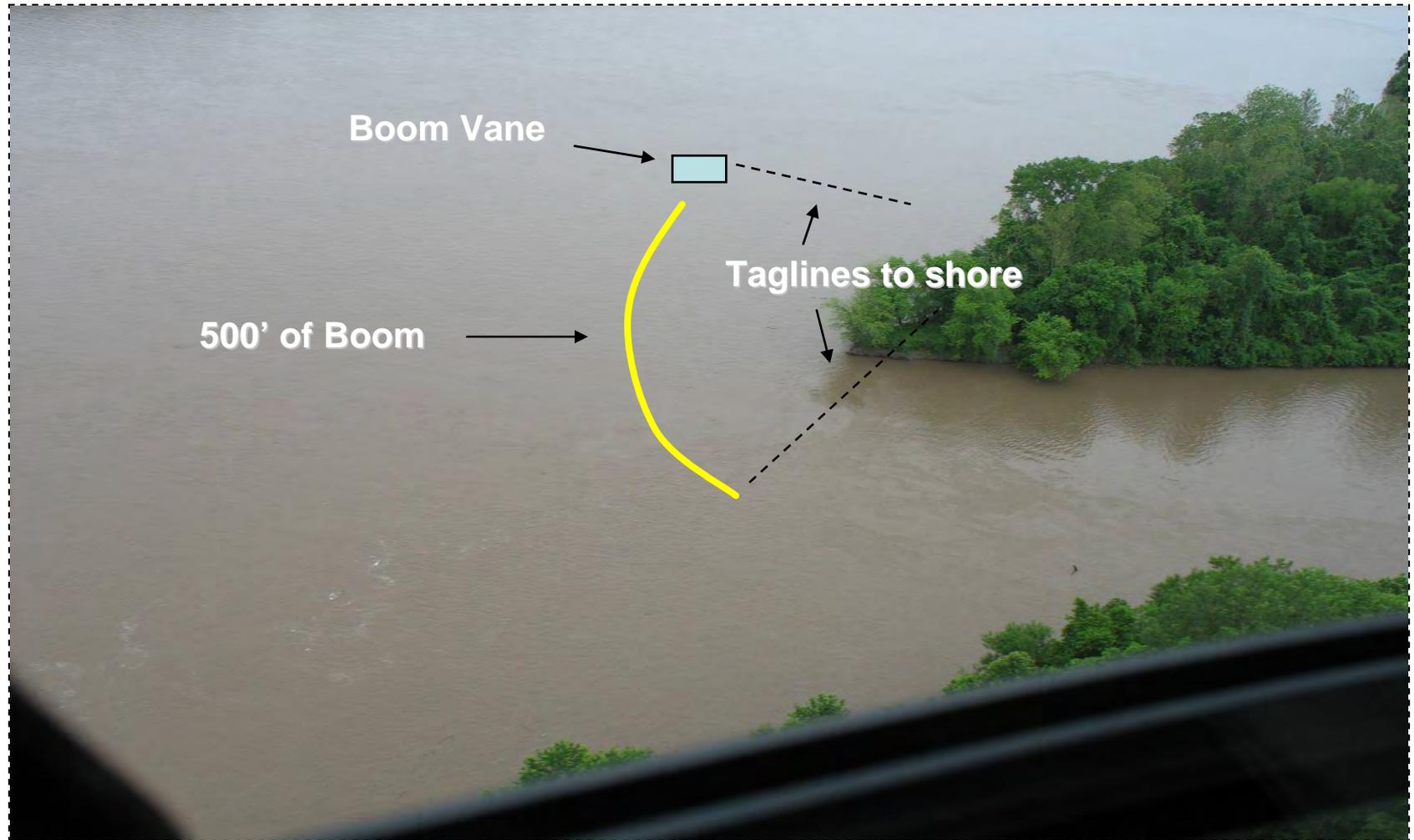


Lines securing anchors & boom to shoreline

Booming Site "B"



Booming Site "C"



Booming Challenges



Large debris gathering in boom



Strong currents & underwater debris (bent anchor)



Large floating trees





Natural Collection Sites



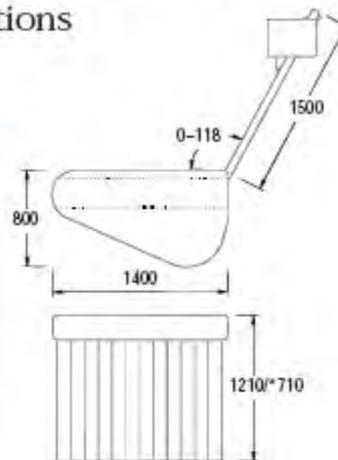
Diesel Fuel



BOOM VANE DEPLOYMENT

BoomVane - technical specifications

(Subject to modification without prior notice)



Materials

wings, frame,	aluminium 6082-T6 [Int. AA]
rudder & stabiliser:	aluminium 6063-T6 [Int. AA]
rudder arms:	aluminium 6063-T6 [Int. AA]
float:	foam-filled GRP
connector plate, pins,	
bolts & shackles:	all stainless steel
bridle line & blocks:	Dyneema SK75 10mm, Rutgersson blocks
mooring line:	Dyneema SK75 12 mm x 150 m, breakload 7500 kgf Dyneema SK75 10mm* x 100 m, breakload 5100 kgf

Performance

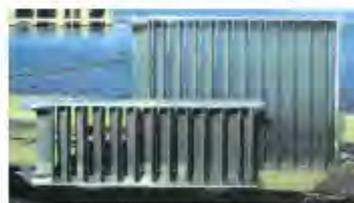
water speed range:	<1 - 5 knots
boom length:	300 - 500 (*300) feet river boom depending on type/size of boom and site characteristics
Draught:	approx. 1.1 m (*0,55 m)

Overall dimensions & weight:

wing unit:	1785 x 310 x 1010*505mm = 0.56*0.28 m ² , 46*35 kg
float unit:	1400x205x800mm = 0.23 m ³ , 16 kg
total:	0.79*0.51 m ³ , 62*51 kg

System accessories

River Circus oil skimmer
ORC River boom



* BoomVane shallow water model

No tools required for assembly, deployment or dismantling of the BoomVane!
To learn more, download the operation manuals from ORC's website.



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Agent:



U.S.
COAST GUARD

NATIONAL STRIKE FORCE
U.S. COAST GUARD
ATLANTIC STRIKE FORCE

ABI!
BOOMVANE
OIL SPILL RESPONSE SYSTEM
ONC AB - SWEDEN
STD

EN-ALL-8082-T6 EN-ALL

41-2809

BOOM VANE VIDEO

BENEFITS OF BOOM VANE

- **Reduced manpower/faster deployment**
- **Reduced training time/costs**
- **Safer deployment**
- **Reduced capital costs for equipment purchase**
- **Reduction storage space requirements**
- **Boom and boom vane can be transported via pick-up truck or helicopter net load**
- **Quicker deployment time with less downstream contamination, clean-up and remediation costs**



Salvage Operations



A-Frames setup and pre-staged on right descending bank

OMAHA & Crane barge. Deadman is set to starboard bow knuckle.



Salvaged & Enroute to Shipyard



Statistics

- Maximum Potential spill: 22,000 Gallons
- Actual spill: 4250 Gallons
- Recovered: 2300 Gallons

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